

Please amend the Abstract as follows:

ABSTRACT OF THE DISCLOSURE

~~The present invention relates to an~~ An apparatus and ~~to~~ a method of polarization dependent ~~analyzing~~ analyzation of an optical signal ~~(6)~~ transmitted through a DUT ~~(10)~~, ~~comprising the steps of:~~ includes splitting the optical signal ~~(6)~~ into a first signal part ~~(16)~~ having an initial first polarization and a second signal part ~~(20)~~ having an initial second polarization, coding the first signal part ~~(16)~~ using a first code ~~(17, code 1)~~ and coding the second signal part ~~(20)~~ using a second code ~~(17, code 2)~~, providing the coded signal parts ~~(16, 6a, 20, 6b, 6c, 6d)~~ to the DUT ~~(10)~~, detecting a DUT-signal ~~(32)~~ coming from the DUT ~~(10)~~ in response to the coded signal parts ~~(16, 6a, 20, 6b, 6c, 6d)~~, and determining a first part ~~(a, e)~~ of the DUT-signal ~~(32)~~ corresponding to the first signal part ~~(16)~~ by means of the first code ~~(17, code 1)~~ and determining a second part ~~(b, d)~~ of the DUT-signal ~~(32)~~ corresponding to the second signal part ~~(20)~~ by means of the second code ~~(17, code 2)~~.